

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of detecting an interfering signal in a time division multiple access (TDMA) radio receiver, ~~characterized by in the method~~ comprising:
taking samples from symbol sequences of a received signal over a TDMA timeslot[[],];
generating by a modulation detector a signal path corresponding to the TDMA timeslot or a portion thereof[[],];
determining an error estimate representing the erroneousness of the signal path generated[[],];
comparing the error estimate representing the erroneousness of the signal path generated with a predetermined threshold value[[],]; and
recognizing the reception of the interfering signal if the error estimate is greater than the predetermined threshold value.

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2. (Currently Amended) [[A]] ~~The method as claimed in of claim 1,~~ characterized by further comprising using in the comparison an error estimate of a signal path corresponding to a half timeslot.

3. (Currently Amended) [[A]] ~~The method as claimed in of claim 1 or 2,~~ characterized by further comprising using a signal path error metric which is generated by means of quadratic errors which are calculated on the basis of the difference between individual symbol sequence specific sample points and corresponding reference constellation points ~~corresponding thereto~~ constructed on the basis of the channel estimate describing the state of the radio channel used as the error estimate representing the erroneousness of the signal path.

4. (Currently Amended) [[A]] ~~The method as claimed in claim 1, 2 or 3 of claim 1 or 2,~~ characterized by further comprising:

generating two or more alternative signal paths from the received timeslot or a portion thereof by two or more parallel modulation detectors preferably of different types, determining an error estimate of each signal path, and selecting the signal path having the best error estimate to be used in the comparison.

5. (Currently Amended) Equipment for detecting an interfering signal in a time division multiple access (TDMA) radio receiver, ~~characterized in that~~ the equipment ~~comprises~~ comprising:

means for taking samples ~~(50)~~ from symbol sequences of a received signal over a TDMA timeslot and

a modulation detector ~~(42)~~ for generating a signal path corresponding to the TDMA timeslot ~~(20, 21, 22)~~ or a portion thereof, ~~and that wherein~~

the equipment is arranged to determine ~~(51)~~ an error estimate representing the erroneousness of the signal path generated and to compare ~~(52)~~ the error estimate representing the erroneousness of the signal path generated with a predetermined threshold value, and ~~that~~

the equipment is also arranged to recognize ~~(53)~~ the reception of the interfering signal if the error estimate is greater than the predetermined threshold value.

6. (Currently Amended) ~~Equipment as claimed in~~ The equipment of claim 5, ~~characterized in that it is~~ further arranged to use in the comparison ~~(52)~~ an error estimate of a signal path corresponding to a half timeslot ~~(20 or 22)~~.

7. (Currently Amended) ~~Equipment as claimed in~~ The equipment of claim 5 or 6, ~~characterized in that wherein~~ a signal path error metric which is generated by means of quadratic errors calculate don the basis of the difference between individual symbol sequence specific sample points and corresponding reference constellation points ~~corresponding thereto~~ constructed on the basis of the channel estimate describing the state of the radio channel used is used as the error estimate representing the erroneousness of the signal path.

8. (Currently Amended) ~~Equipment as claimed in claim 5, 6 or 7~~ The equipment of claim 5 or 6, ~~characterized in that it comprises~~ comprising two or more parallel modulation detectors preferably of different types for generating two or more alternative signal paths

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from the received timeslot or a portion thereof, the equipment being arranged to determine an error estimate of each signal path and to select the signal path having the best error estimate to be used in the comparison.
